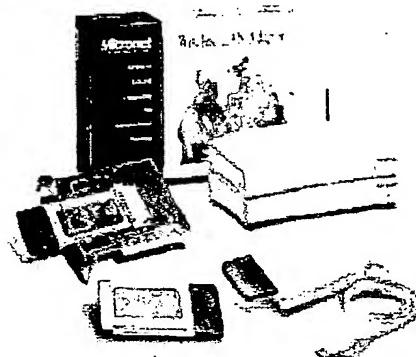




**Micronet**  
Faster and Easier Networks



Micronet SP900 Series

## RadioLink™ Wireless LAN|

*Flexible, mobile, secure and reliable connections, without wires*

Micronet SP900 Series of RadioLink Wireless LAN product family enables users to establish and maintain a wireless LAN throughout or between buildings, without the limitation of wires and cables. Connectivity no longer implies attachment. Mobility becomes possible. Local areas are measured not in feet or meters, but miles or kilometers.

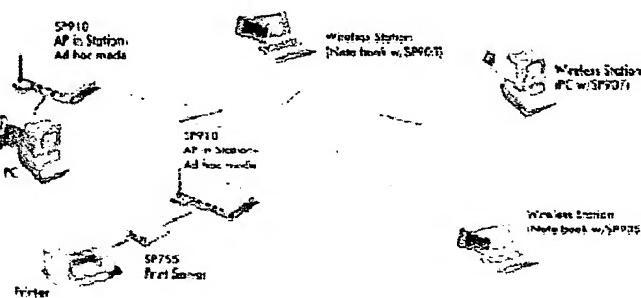
Micronet SP900 Series work in DSSS (Direct Sequence Spread Spectrum) modulation method, operating in the ISM (Industrial Scientific and Medical) band 2.4-2.484 GHz, a frequency that worldwide unlicensed. Fully compatible with IEEE 802.11b standard, Micronet SP900 Series ensure the inter-operations among different vendors.

Micronet SP900 Series provide full product lines. The RadioLink Adapters equip with 3 different interfaces, including PCMCIA, PCI and USB. The various RadioLink Access Point models provide various enhanced features that include Access point, Inter-Building Bridge and Routing. Micronet also provides high-gain antennas for extending the coverage of your Wireless LAN.

### Key Features

- Compliant with IEEE802.11b Wireless LAN standard
- Auto data rate selection at 11, 5.5, 2 and 1 Mbps
- Operating at the unlicensed ISM band with multi-channel frequency from 2.4 GHz to 2.484 GHz
- Wide coverage range upto several miles, depending on the environment and the antenna selected
- Rock-solid security by WEP encryption and MAC Control List
- Enhanced features for various applications, such as Pure Wireless Network, Wireless-Ethernet LAN, Inter-Building (LAN-to-LAN) or Wireless Internet access

### Application Example 1. Pure Wireless Network



The simplest Wireless LAN configuration is an independent (or peer-to-peer) Wireless LAN that connects a set of PCs or Note Books with wireless adapters like SP905, SP906 and SP907. Any time two or more wireless adapters are within range of each other, they can set up an independent network. These on-demand networks typically require no administration or pre-configuration. We also call it Ad-hoc Wireless LAN.

# Micronet RadioLink™ Wireless LAN - Reliab

## Wireless Glossary

### IEEE 802.11b

The IEEE standard that specifies a carrier sense media access control and physical layer specifications for 5.5 and 11 Mbps wireless LANs.

### Access Point

A wireless LAN transceiver that acts as a center point and bridges between wireless and wired networks.

### Bridge

A device used to connect LANs by forwarding packets across connections at the Media Access Control (MAC) layer.

### Roaming

Moving seamlessly from one AP coverage area to another with no loss in connectivity.

### Uni-Directional Antenna

An antenna that concentrates transmission power into a direction thereby increasing coverage distance at the expense of coverage angle.

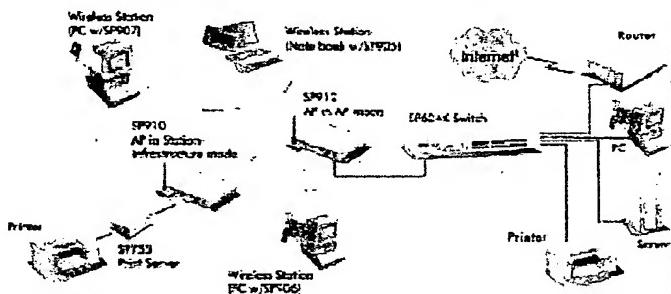
### Omni-Directional Antenna

An antenna that provides a 360 degree transmission pattern. These types of antennas are used when coverage in all directions is required.

### Wired Equivalent Privacy

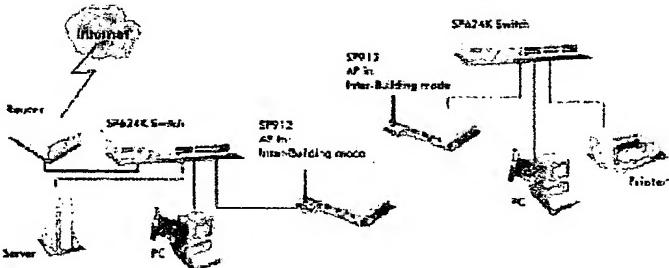
WEP encryption is defined by the 802.11 standard to prevent (1) access to the network by "intruders" using similar wireless LAN equipment and (2) capture of wireless LAN traffic through eavesdropping.

## Application Example 2. Wireless - Ethernet LAN



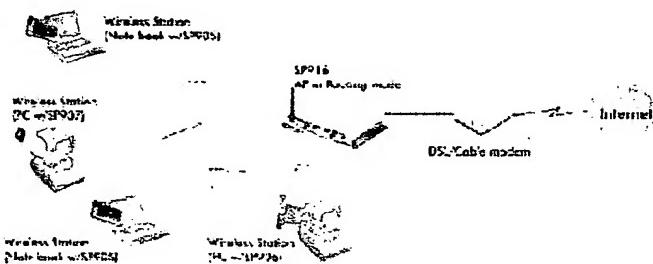
In this application, multiple Access Points link the Wireless LAN to the wired network and allow users to efficiently share network resources. The Access Point not only provides communication with the wired network but also mediate wireless network traffic. We also call it infrastructure Wireless LAN

## Application Example 3. Point-to-Multipoint Inter-Building (LAN-to-LAN)



In this application, multiple LANs can links together through Access Points with Inter-building bridge function. User's in different building could share network resources. The distance between different locations can extend to a few miles through Micronet high-gain Antenna.

## Application Example 4. Internet Access with Wireless DSL/Cable Router



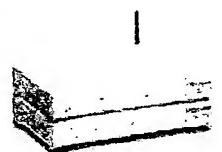
This is the most convenient method for users to access Internet wirelessly. The Access Point with Routing function can connect to DSL/Cable modem so that they can provide Wireless Stations with Internet entries.

# *d Secure Connection, without Wire*

**Micronet**  
Faster and Easier Networks

## Features and Benefits

FEATURE	BENEFIT
<b>EASY AND RELIABLE WIRELESS LAN CONNECTION</b>	
Dynamic Data-Rate	Micronet RadioLink Wireless LAN products support 1, 2, 5.5 and 11 Mbps to ensure reliability of data transmission, and the most suitable data rate will be determined according to the strength of signal.
Roaming	Micronet RadioLink Wireless LAN products support seamless roaming function that allow continuous communication and automatically switching among different Access Point when user moving.
<b>STANDARD COMPLIANT</b>	
IEEE802.11b Standard Compliant	Micronet RadioLink Wireless LAN products are fully compliant with the IEEE802.11b Wireless LAN standard, which ensures the inter-operations among different vendors.
<b>SECURITY</b>	
MAC Address Control List	The List let you specify the MAC addresses of the users allowed onto your wireless network.
WEP Encryption	Micronet RadioLink Wireless LAN features WEP (Wired Equivalent Privacy) Encryption, which secure network data by encoding it between Access Point and the client devices.
<b>ENHANCED ACCESS POINT FEATURES</b>	
Access Point Mode	Wireless stations (e.g. notebook with wireless PCMCIA SP905) could communicate with the wired Ethernet through Access Point in this mode. Thus, the wireless LAN and the Ethernet can co-exist and communicate with each other.
Inter-Building Bridge Mode (LAN-to-LAN) (SP912 only)	Micronet Access Point may serve as a wireless bridge for point-to-point and point-to-multipoint inter-building LAN connections. With the choice of antenna, the distance among buildings can be a few miles.
Routing Mode	Micronet Access Point may serve as a Wireless DSL/Cable Router, for wireless stations to access Internet wirelessly.
<b>VERSATILITATION AND WIDE RANGE COVERAGE</b>	
Windows-Based Utility	User can easily establish the Wireless Environment through the user friendly configuration utility.
SNMP and Web Management	User can use existing SNMP-based management platform or Web Browser like Internet Explorer to control and monitor Micronet Access Point.
Site-Survey Utility	Micronet RadioLink Wireless LAN Adapters provide Site-Survey tools in utility for trouble-shooting and environment survey.
Uni-Directional or Omni-Directional Antenna and Low-Loss Cable	With Micronet uni-directional and omni-directional antennas, low-loss cable, mounting hardware and other accessories, installers can customize a wireless solution that meets the requirements of even the most challenging applications, upto a few miles distance.
Windows and Linux	Micronet RadioLink Wireless LAN products support all popular Operation System like Windows 95/98/2000/NT/ME, and Linux.



SP912  
Access Point with Bridge



SP916  
Access Point with Router



SP905 PCMCIA Adapter



SP906 PCI Adapter



SP907 USB Adapter



SP920 Series  
Antenna and Cables

**BEST AVAILABLE COPY**

## SP900 Series RadioLink Wireless LAN

### SPECIFICATIONS AND PRODUCT FEATURES

#### RadioLink 11Mbps Access Point

Model	SP912	SP916
Standard	IEEE 802.11 & IEEE 802.11b	
Data Rate	11, 5.5, 2 and 1 Mbps	
Antenna	SMA connector for external antenna	Built-in
AP mode	Yes	
Routing mode	N/A	Yes
Inter-building Bridge Mode	Yes	N/A
Roaming	Yes	
Security	WEP Encryption, Access control list	
Coverage	250m in open space, a few kilometers with selected antenna	200m in open space
Configuration	Windows-based Utility, Telnet, Web management, SNMP	

#### RadioLink 11Mbps Wireless LAN Adapter

Model	SP905	SP906	SP907
Standard	IEEE 802.11 & IEEE 802.11b		
Data Rate	11, 5.5, 2 and 1 Mbps		
Antenna	Built-in		
Interface	PCMCIA	PCI	USB
Driver Support	Win95/98/2000/NT/ME, Linux	Win98/2000/NT/ME	Win98/2000/ME
Roaming	Yes		
Coverage	250m in open space		
Security	WEP Encryption		

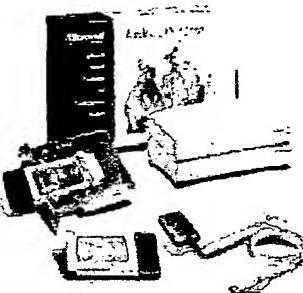
Model	SP920H	SP920K
Type	Uni-directional, Yagi-type	Omni-directional
Frequency	2.4GHz~2.5GHz	
Gain	13.9dB	3.0 dB
E-Plane	30 degree	38 degree
H-Plane	34 degree	Omni, 360 degree
Connector	N-type, Female	

### ORDERING INFORMATION

Model	Description
SP905	2/11 Mbps PCMCIA Wireless LAN Adapter with built-in Antenna
SP906	2/11 Mbps PCI Wireless LAN Adapter with built-in Antenna
SP907	2/11 Mbps USB Wireless LAN Adapter with built-in Antenna
SP910	2 Mbps Wireless LAN Access Point
SP912	2/11 Mbps Wireless Access Point with Bridge, External Antenna
SP916	2/11 Mbps Wireless Access Point with Router, Internal Antenna
SP920H	Uni-Directional Antenna, 13.9 dB
SP920K	Omni-Directional Antenna, 3 dB
SPK900	2/11 Mbps RadioLink Wireless LAN Kit (SP916 x1 and SP905 x 2)
M906	2/11 Mbps Wireless LAN PCI Card Reader
M907	2/11 Mbps Wireless LAN USB Card Reader
C920B	Low-loss cable for SP910/SP912, 0.3M, MMCX to SMA
C920C	Low-loss cable for SP910/SP912, 10M, N(Female) to N(Male)

Headquarter  
Micronet Communications Inc.

Manufacturer and Exporter  
Spectrum Technologies Corp.  
12F-1, No.100, Min-Chuan Road, Hsin-Tier, Taipei, Taiwan, R.O.C.  
TEL: 886-2-2218-3656; FAX: 886-2-2218-3659; E-mail: sales@microne.com.tw; WWW http://www.micronet.com.tw



### COMPANION PRODUCTS

Consider these related 10/100/1000 Mbps Micronet products as a factor in your network planning.

Ethernet Adaptor for Desktop PC
Pocket Ethernet Adapter
PCMCIA Ethernet
PCMCIA Ethernet + Modem
PCMCIA Modem
Ethernet Hub
Ethernet Switch
Ethernet Repeater
Ethernet Transceiveter
Ethernet Converter
Wireless LAN
Print Server
Broadband Communication
Internet IP Sharer
Internet IP Telephony
Modem
USB Device Family
SNMP Network Management
RMON Network Management
Web-Based Network Management



ISO 9002

All technical information in this document is subject to change without prior notice. Micronet, EtherFast and MicroView are registered trademarks of Spectrum Technologies Corporation. Microsoft, Windows, Windows 95, Windows 98, Windows NT, Windows 2000 are registered trademarks of Microsoft Corporation. Novell and Netware are registered trademarks of Novell Inc. All other trademarks and registered trademarks are properties of their respective holders.

P/N: 9100-0000  
Printed in March 2001

BEST AVAILABLE COPY